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10/596,118	05/31/2006	Masato Ishio	515.040US01	2312
34206 FOGG & POW	7590 06/07/201 ERS LLC	EXAMINER		
5810 W 78TH S	STREET	PARK, HYUN D		
SUITE 100 MINNEAPOLIS, MN 55439			ART UNIT	PAPER NUMBER
			2863	
			NOTIFICATION DATE	DELIVERY MODE
			06/07/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

DAVID@FOGGLAW.COM docketing@fogglaw.com

		Application No.	Applicant(s)		
		10/596,118	ISHIO ET AL.		
	Office Action Summary	Examiner	Art Unit		
		HYUN PARK	2863		
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
 Responsive to communication(s) filed on 19 April 2010. This action is FINAL. This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. 					
Dispositi	on of Claims				
 4) Claim(s) 10 and 20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 10 and 20 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Applicati	on Papers				
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 31 May 2006 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority u	ınder 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date <u>04/19/2010</u> .	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte		

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DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims 10, 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hoenninger, US Pat No. 5,490,065 (hereinafter Hoenninger) in view of Chapman et al., US Pat No. 5,442,738 (hereinafter Chapman).

Regarding Claims10, 20: Hoenninger discloses a test apparatus (7; Fig. 1) and method for a control unit (10; Fig. 1), comprising:

testing means for testing the operation of said control unit based on a relationship between a pattern signal input (**90**; Fig. 5) to said control unit and an output signal (**91**; Fig. 5) output in response to said pattern signal (Fig. 5; Col. 7, lines 32-37) from a target being controlled by said control unit;

means for causing said testing means during execution of a first pattern signal to switch to the execution a second pattern signal when a first pattern signal transition condition for making a transition to the execution of said second pattern signal holds as a result of the execution of the first pattern signal (Note: Hoenninger discloses conditions for transitioning to different pattern signals, namely first from initializing signals (Col. 3, lines 40-60) to a set of input signals generated by the signal generators (Col. 3, line 67, Col. 4, lines 1-15) provided that a successful communication between the control unit and testing computer is made in the initialization step. Afterwards, transition from signal generated input signals to square wave signals (Col. 4, lines 28-35) is made provided the test program recognizes a falling edge signal on the ignition signal output line 17 (Col. 4, lines 21-28).

Hoenninger does not disclose means for causing said testing means during execution of said first pattern signal to switch to the execution of a third pattern signal when a second pattern signal transition condition for making a transition to

the execution of said third pattern signal holds as a result of the execution of the first pattern signal.

Chapman discloses a computer display with various nested windows configurations (*Figs. 3-6*), which allows the structural relationships between the objects (*Abstract, lines 2-5*) to be represented in a way that is visually easy to comprehend (*Col. 4, lines 28-30*). Furthermore, the display is also user friendly and easy to edit and read (Col. 4, lines 40-41).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to use the teachings of Chapman in the apparatus and method of Hoenninger to organize the pattern signal testing structures that is user-friendly, visually easy to comprehend, edit and read as taught by Chapman, wherein the said organization would consist of having means for causing said testing means during execution of said first pattern signal to switch to the execution of a third pattern signal when a second pattern signal transition condition for making a transition to the execution of said third pattern signal holds as a result of the execution of the first pattern signal. (Note: to illustrate the said organization, following examples are given below.)

Example 1: Hoenninger discloses that once the system is test ready after the first (initial) test pattern signal (described in Col. 3, lines 40-60), second test pattern signals are applied (as described in Col. 3, line 67 to Col. 4, lines 1-15).

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This second test pattern signal (or set of input signals) however, can be applied in various manners, such as time-independent, time dependent, and etc. By using one of the Chapman's teachings, namely Fig. 4 (where the entity A is embedded with sub-entities B and C), Hoenninger can then better organize and simultaneously display the pattern signals testing structure as follows: (Entity A): First test-readying pattern signal, (Sub-entity B): time-independent signal (second test pattern signal), and (Sub-entity C): time-dependent signal (third test pattern signal). As such, first test pattern signal can transition to either second or third pattern signals provided respective transitioning conditions are satisfied).

Example 2: Hoenninger also discloses applying various wave signals, such as square, sawtooth, or triangular, once the test program recognizes a falling edge signal as described in Col. 4, lines 16-35. By using one of the Chapman's teachings, namely Fig. 4 (where the entity A is embedded with sub-entities B and C), Hoenninger can then better organize and *simultaneously* display the pattern signals testing structure as follows: (for the sake of the argument, suppose the first test pattern signal is the input signals generated by the signal generator).

(Entity A): First input pattern signal, (Sub-entity B): square wave signal (second test pattern signal), and (Sub-entity C): sawtooth wave signal (third test pattern signal). As such, first test pattern signal can transition to either second or third pattern signals provided respective transitioning conditions are satisfied).

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Response to Arguments

4. Applicant's arguments filed 04/19/2010 have been fully considered but they are not persuasive.

5. Applicant argues that Chapman provides no teaching about determining when to switch from one test signal pattern to another test signal pattern. As such, one of ordinary skill in the art would not be able to modify Hoenninger as suggest by the Examiner to produce the claimed invention.

In Response, the Examiner respectively disagrees for the following reason. Hoenninger teaches option, the option to switch from one well known wave signal to another (used as an example for this argument—see Example 2 above, but Example 1 is equally applicable), namely from square wave to sawtooth and triangular shaped signals (Col. 4, lines 28-36) once the falling edge signal is recognized (Col. 4, lines 16-27; Fig. 2, Step 34). Since Chapman provides a visual, user-friendly data representation where all the available options can be displayed all at once, one of ordinary skill in the art would have been able to easily choose a given wave signal (and any combination) as desired, and it certainly would have been obvious to try other well known wave signals. As such, one of ordinary skill in the art would have been able to modify Hoenninger as suggest by the Examiner to produce the claimed invention.

6. Applicant also argues that the obviousness rejection is improper because Chapman relied on by the Examiner is non-analogous art, since Hoenninger is related to a method for testing control units and to an apparatus for carrying out the method, while Chapman is related to a computer display and a method for

the presentation of structure. As such, one skilled in the art would not consider combining Chapman with Hoenninger.

In Response, the Examiner respectively disagrees and draws attention to the fact that Hoenninger's invention uses a control unit and test unit, wherein the test unit includes a computer that executes test programs (Col. 2, line 66 to Col. 3, lines 1-2, lines 24-31). Since Chapman's disclosure is based on usage of the computer, both references are analogous arts. Furthermore, Applicant's own disclosure is also based on a user performing various operations on the computer screen, specifically using GUI (graphic user interface). As such, Hoenninger and Chapman are analogous and relevant arts and the obviousness rejection is proper.

* note: New IDS was not considered for these reasons: 1) the English translated version was not readily available at the time of this Office Action, and the English-translated abstract did not have sufficient information to use against the claims, and 2) the Examiner judged the prior arts Hoenninger and Chapman to be more than sufficient to be applied in the rejection of claims 10 and 20.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HYUN PARK whose telephone number is (571)270-7922. The examiner can normally be reached on 8-4 PM, M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew Dunn can be reached on (571)272-2312. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/H. P./

/Sujoy K Kundu/ Primary Examiner, Art Unit 2863 June 2, 2010

06/01/2010